Qe 09/911,088

29/apr/03

D. Ow

gen

Welcome to STN International! Enter x:x

LOGINID:ssspta1600gxh

PASSWORD:
THIS LOGINID IS CURRENTLY IN USE.
DO YOU WISH TO RESUME THE PREVIOUS SESSION? Y/(N)/?:Y

THE PREVIOUS SESSION IS BEING DISCONNECTED.
PLEASE LOG IN AGAIN TO BE RECONNECTED.
SYSTEM LOGOFF AT 16:53:35 ON 29 APR 2003 US EASTERN TIME

Connection closed by remote host

A new logon attempt will be made when this window closes. If you chose to RESUME PREVIOUS SESSION, then continue with the logon process as normal. If not, choose Cancel or <ESC> to interrupt the logon process.

Commerical Database access on COM server not responding.

STNLOGON timed out

Welcome to STN International! Enter x:x

LOGINID:ssspta1600gxh

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS, CABA, AGRICOLA, BIOSIS'
AT 16:56:26 ON 29 APR 2003
FILE 'CAPLUS' ENTERED AT 16:56:26 ON 29 APR 2003
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)
FILE 'CABA' ENTERED AT 16:56:26 ON 29 APR 2003
COPYRIGHT (C) 2003 CAB INTERNATIONAL (CABI)
FILE 'AGRICOLA' ENTERED AT 16:56:26 ON 29 APR 2003
FILE 'BIOSIS' ENTERED AT 16:56:26 ON 29 APR 2003
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	78.12	81.13

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(FILE 'HOME' ENTERED AT 16:26:41 ON 29 APR 2003)

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE' ENTERED AT 16:26:54 ON 29 APR 2003

FILE 'CAPLUS, CABA, AGRICOLA, BIOSIS' ENTERED AT 16:27:17 ON 29 APR 2003
L1 10 S IRREVERSIBLE RECOMB?

L2 22 S C31 INTEGRASE

=> d 1-22

L2 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN 2003:152012 CAPLUS
TI Site-specific cassette exchange and germline transmission with mouse ES cells expressing .PHI.**C31 integrase**
AU Belteki, Gusztav; Gertsenstein, Marina; Ow, David W.; Nagy, Andras
CS Samuel Lunenfeld Research Institute, Mount Sinai Hospital, Toronto, ON, M5G 1X5, Can.
SO Nature Biotechnology (2003), 21(3), 321-324
CODEN: NABIF9; ISSN: 1087-0156
PB Nature Publishing Group
DT Journal
LA English
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN 2002:814310 CAPLUS
DN 137:321289
TI Expression systems to produce DNA minicircle lacking bacterial vector sequences from parent plasmid for gene therapy
IN Bigger, Brian W.; Tolmachov, Oleg; Coutelle, Charles
PA Imperial College Innovations Limited, UK
SO PCT Int. Appl., 70 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002083889	A2	20021024	WO 2002-GB1668	20020410
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003005478	A1	20030102	US 2002-118231	20020409
PRAI GB 2001-8968	A	20010410		
US 2001-327029P	P	20011005		

L2 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN 2002:754598 CAPLUS
DN 137:274083
TI Autonomously-replicating amplifiable vectors for transformation of plant cells and site-specific integration of transgenes
IN Klimyuk, Victor; Gleba, Yuri; Marillonnet, Sylvestre
PA Icon Genetics Ag, Germany; Icon Genetics, Inc.
SO PCT Int. Appl., 74 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002077246	A2	20021003	WO 2002-EP3266	20020322
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
DE 10114209 A1 20021205 DE 2001-10114209 20010323
PRAI DE 2001-10114209 A 20010323

L2 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN 2002:745860 CAPLUS
DN 138:85859
TI Stable nonviral genetic correction of inherited human skin disease
AU Ortiz-Urda, Susana; Thyagarajan, Bhaskar; Keene, Douglas R.; Lin, Qun; Fang, Min; Calos, Michele P.; Khavari, Paul A.
CS Stanford University School of Medicine, Stanford, CA, USA
SO Nature Medicine (New York, NY, United States) (2002), 8(10), 1166-1170
CODEN: NAMEFI; ISSN: 1078-8956
PB Nature Publishing Group
DT Journal
LA English
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN 2002:489195 CAPLUS
DN 137:258122
TI Enhanced efficiency through nuclear localization signal fusion on phage .PHI.**C31-integrase**: activity comparison with Cre and FLPe recombinase in mammalian cells
AU Andreas, Susanne; Schwenk, Frieder; Kuter-Luks, Birgit; Faust, Nicole; Kuhn, Ralf
CS Artemis Pharmaceuticals GmbH, Koln, 51063, Germany
SO Nucleic Acids Research (2002), 30(11), 2299-2306
CODEN: NARHAD; ISSN: 0305-1048
PB Oxford University Press
DT Journal
LA English
RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN 2002:368516 CAPLUS
DN 136:381344
TI Recombinase-nuclear localization signal fusion and its use for DNA recombination in cells or organisms
IN Kuehn, Ralf; Felder, Susanne; Schwenk, Frieder; Kueter-Luks, Birgit; Faust, Nicole
PA Artemis Pharmaceuticals G.m.b.H., Germany
SO PCT Int. Appl., 150 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002038613	A2	20020516	WO 2001-EP12975	20011109

PI
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,

PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP 1205490 A1 20020515 EP 2000-124629 20001110
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
AU 2002021829 A5 20020521 AU 2002-21829 20011109
PRAI EP 2000-124629 A 20001110
EP 2001-109543 A 20010417
US 2001-311876P P 20010813
WO 2001-EP12975 W 20011109

L2 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN 2002:364022 CAPLUS
DN 136:381377
TI Integrase carrying signal peptide for site-specific recombination
IN Kuehn, Ralf; Felder, Susanne; Schwenk, Frieder; Kueter-Luks, Birgit; Faust, Nicole
PA Artemis Pharmaceuticals G.m.b.H., Germany
SO Eur. Pat. Appl., 54 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1205490	A1	20020515	EP 2000-124629	20001110
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
WO 2002038613	A2	20020516	WO 2001-EP12975	20011109
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002021829	A5	20020521	AU 2002-21829	20011109
PRAI EP 2000-124629	A	20001110		
EP 2001-109543	A	20010417		
US 2001-311876P	P	20010813		
WO 2001-EP12975	W	20011109		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN 2002:355879 CAPLUS
DN 137:105514
TI Diversity in the serine recombinases
AU Smith, Margaret C. M.; Thorpe, Helena M.
CS Institute of Genetics, Queens Medical Centre, University of Nottingham, Nottingham, NG7 2UH, UK
SO Molecular Microbiology (2002), 44(2), 299-307
CODEN: MOMIEE; ISSN: 0950-382X
PB Blackwell Science Ltd.
DT Journal; General Review
LA English
RE.CNT 61 THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN 2002:67139 CAPLUS
DN 137:2397
TI Directed evolution of a recombinase for improved genomic integration at a native human sequence
AU Sclimenti, Christopher R.; Thyagarajan, Bhaskar; Calos, Michele P.
CS Department of Genetics, Stanford University School of Medicine, Stanford, CA, 94305-5120, USA
SO Nucleic Acids Research (2001), 29(24), 5044-5051
CODEN: NARHAD; ISSN: 0305-1048
PB Oxford University Press
DT Journal
LA English
RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN 2001:826441 CAPLUS
DN 136:364415
TI Phage R4 integrase mediates site-specific integration in human cells
AU Olivares, Eric C.; Hollis, Roger P.; Calos, Michele P.
CS Department of Genetics, Stanford University School of Medicine, Stanford, CA, 94305-5120, USA
SO Gene (2001), 278(1-2), 167-176
CODEN: GENED6; ISSN: 0378-1119
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN 2001:630281 CAPLUS
DN 136:227747
TI Gene insertion and replacement in Schizosaccharomyces pombe mediated by the Streptomyces bacteriophage .phi.C31 site-specific recombination system
AU Thomason, L. C.; Calendar, R.; Ow, D. W.
CS Department of Molecular and Cell Biology, University of California, Berkeley, CA, 94720-3202, USA
SO Molecular Genetics and Genomics (2001), 265(6), 1031-1038
CODEN: MGGOAA; ISSN: 1617-4615
PB Springer-Verlag
DT Journal
LA English
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN 2001:618208 CAPLUS
DN 135:191258
TI Methods for preparing altered recombinases for genome modification
IN Calos, Michele P.; Sclimenti, Christopher R.
PA The Board of Trustees of the Leland Stanford Junior University, USA
SO PCT Int. Appl., 100 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001061049	A1	20010823	WO 2001-US5269	20010216

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,

LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US	2002094516	A1	20020718	US 2001-788297	20010216
EP	1255868	A1	20021113	EP 2001-914401	20010216

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRAI	US 2000-183759P	P	20000218	
	WO 2001-US5269	W	20010216	

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN 2001:411353 CAPLUS
DN 136:96878
TI Site-specific genomic integration in mammalian cells mediated by phage .phi.**C31 integrase**
AU Thyagarajan, Bhaskar; Olivares, Eric C.; Hollis, Roger P.; Ginsburg, Daniel S.; Calos, Michele P.
CS Department of Genetics, Stanford University School of Medicine, Stanford, CA, 94305-5120, USA
SO Molecular and Cellular Biology (2001), 21(12), 3926-3934
CODEN: MCEBD4; ISSN: 0270-7306
PB American Society for Microbiology
DT Journal
LA English
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN 2001:78496 CAPLUS
DN 134:126852
TI DNA recombination in eukaryotic cells by the bacteriophage phiC31 recombination system
IN Ow, David W.; Calendar, Richard; Thomason, Lynn
PA The Regents of the University of California, USA; United States Dept. of Agriculture
SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001007572	A2	20010201	WO 2000-US19983	20000721

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

	EP 1234022	A2	20020828	EP 2000-950558	20000721

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL

	JP 2003505065	T2	20030212	JP 2001-512843	20000721
PRAI	US 1999-145469P	P	19990723		
	WO 2000-US19983	W	20000721		

L2 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN 2000:805953 CAPLUS
DN 134:97109
TI Control of directionality in the site-specific recombination system of the Streptomyces phage .phi.C31
AU Thorpe, Helena M.; Wilson, Stuart E.; Smith, Margaret C. M.
CS Institute of Genetics, Queens Medical Centre, University of Nottingham, Nottingham, NG7 2UH, UK
SO Molecular Microbiology (2000), 38(2), 232-241
CODEN: MOMIEE; ISSN: 0950-382X
PB Blackwell Science Ltd.
DT Journal
LA English
RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN 2000:392815 CAPLUS
DN 133:306122
TI A phage integrase directs efficient site-specific integration in human cells
AU Groth, Amy C.; Olivares, Eric C.; Thyagarajan, Bhaskar; Calos, Michele P.
CS Department of Genetics, Stanford University School of Medicine, Stanford, CA, 94305-5120, USA
SO Proceedings of the National Academy of Sciences of the United States of America (2000), 97(11), 5995-6000
CODEN: PNASA6; ISSN: 0027-8424
PB National Academy of Sciences
DT Journal
LA English
RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN 2000:145009 CAPLUS
DN 132:204039
TI Methods and compositions for genomic modification by site-specific integration
IN Calos, Michele P.
PA The Board of Trustees of the Leland Stanford Junior University, USA
SO PCT Int. Appl., 125 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000011155	A1	20000302	WO 1999-US18987	19990819
	W: AU, CA, JP				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9958985	A1	20000314	AU 1999-58985	19990819
	US 2003050258	A1	20030313	US 1999-377885	19990819
PRAI	US 1998-97166P	P	19980819		
	WO 1999-US18987	W	19990819		

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN 1998:311758 CAPLUS
DN 129:78359
TI In vitro site-specific integration of bacteriophage DNA catalyzed by a recombinase of the resolvase/invertase family
AU Thorpe, Helena M.; Smith, Margaret C. M.

CS Department of Genetics, Queens Medical Centre, University of Nottingham, Nottingham, NG7 2UH, UK
SO Proceedings of the National Academy of Sciences of the United States of America (1998), 95(10), 5505-5510
CODEN: PNASA6; ISSN: 0027-8424
PB National Academy of Sciences
DT Journal
LA English
RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 19 OF 22 CABA COPYRIGHT 2003 CABI
AN 2002:66650 CABA
DN 20023022973
TI Site-specific genomic integration in mammalian cells mediated by phage phi **C31 integrase**
AU Thyagarajan, B.; Olivares, E. C.; Hollis, R. P.; Ginsburg, D. S.; Calos, M. P.
CS Department of Genetics, Stanford University School of Medicine, Stanford, CA 94305-5120, USA.
SO Molecular and Cellular Biology, (2001) Vol. 21, No. 12, pp. 3926-3934. 28 ref.
ISSN: 0270-7306
DT Journal
LA English

L2 ANSWER 20 OF 22 CABA COPYRIGHT 2003 CABI
AN 2001:121102 CABA
DN 20013116946
TI Gene insertion and replacement in Schizosaccharomyces pombe mediated by the Streptomyces bacteriophage phi C31 site-specific recombination system
AU Thomason, L. C.; Calendar, R.; Ow, D. W.
CS Department of Molecular and Cell Biology, University of California, Berkeley, CA 94720-3202, USA.
SO Molecular Genetics and Genomics, (2001) Vol. 265, No. 6, pp. 1031-1038. 26 ref.
ISSN: 1617-4615
DT Journal
LA English

L2 ANSWER 21 OF 22 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2003:153841 BIOSIS
DN PREV200300153841
TI Site-specific cassette exchange and germline transmission with mouse ES cells expressing phiC31 integrase.
AU Belteki, Gusztav; Gertsenstein, Marina; Ow, David W.; Nagy, Andras (1)
CS (1) Samuel Lunenfeld Research Institute, Mount Sinai Hospital, 600 University Avenue, Toronto, ON, M5G 1X5, Canada: nagy@mshri.on.ca Canada
SO Nature Biotechnology, (March 2003, 2003) Vol. 21, No. 3, pp. 321-324. print.
ISSN: 1087-0156.
DT Article
LA English

L2 ANSWER 22 OF 22 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2001:515058 BIOSIS
DN PREV200100515058
TI Gene insertion and replacement in Schizosaccharomyces pombe mediated by the Streptomyces bacteriophagevariant phiC31 site-specific recombination system.
AU Thomason, L. C.; Calendar, R.; Ow, D. W. (1)
CS (1) Plant Gene Expression Center, Department of Plant and Microbial Biology, U.S. Department of Agriculture, University of California, 800 Buchanan St., Albany, CA, 94710: ow@pgec.ars.usda.gov USA

SO MGG Molecular Genetics and Genomics, (August, 2001) Vol. 265, No. 6, pp. 1031-1038. print.
ISSN: 1617-4615.
DT Article
LA English
SL English

=> c hix d his
C IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> d his

(FILE 'HOME' ENTERED AT 16:26:41 ON 29 APR 2003)

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE' ENTERED AT 16:26:54 ON 29 APR 2003

FILE 'CAPLUS, CABA, AGRICOLA, BIOSIS' ENTERED AT 16:27:17 ON 29 APR 2003
L1 10 S IRREVERSIBLE RECOMB?
L2 22 S C31 INTEGRASE

WEST

Generate Collection | Print

Search Results - Record(s) 1 through 9 of 9 returned.

1. Document ID: US 6551828 B1

L2: Entry 1 of 9 File: USPT Apr 22, 2003

US-PAT-NO: 6551828
DOCUMENT-IDENTIFIER: US 6551828 B1

TITLE: Compositions and methods for generating expression vectors through site-specific recombination

DATE-ISSUED: April 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Clark; Robin	Benicia	CA		

US-CL-CURRENT: 435/462; 435/455, 435/471, 435/7.21, 435/7.31, 435/7.32

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

2. Document ID: US 6270969 B1

L2: Entry 2 of 9 File: USPT Aug 7, 2001

US-PAT-NO: 6270969
DOCUMENT-IDENTIFIER: US 6270969 B1

TITLE: Recombinational cloning using engineered recombination sites

DATE-ISSUED: August 7, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hartley; James L.	Frederick	MD		
Brasch; Michael A.	Gaithersburg	MD		

US-CL-CURRENT: 435/6; 435/320.1, 435/462, 536/23.1, 536/24.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

3. Document ID: US 6174708 B1

L2: Entry 3 of 9 File: USPT Jan 16, 2001

US-PAT-NO: 6174708
DOCUMENT-IDENTIFIER: US 6174708 B1

TITLE: Preparation of a multicombinatorial library of antibody gene expression vectors

DATE-ISSUED: January 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sodoyer; Regis	Saint Foy les Lyon			FR
Aujame; Luc	Fleurieux sur l'Arbresle			FR
Geoffroy; Frederique	Bessenay			FR
Bouchardon; Annabelle	Lyons			FR

US-CL-CURRENT: 435/91.1; 435/477, 435/488

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4. Document ID: US 6171861 B1

L2: Entry 4 of 9 File: USPT Jan 9, 2001

US-PAT-NO: 6171861
DOCUMENT-IDENTIFIER: US 6171861 B1
**** See image for Certificate of Correction ****

TITLE: Recombinational cloning using engineered recombination sites

DATE-ISSUED: January 9, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hartley; James L.	Frederick	MD		
Brasch; Michael A.	Gaithersburg	MD		

US-CL-CURRENT: 435/455; 435/320.1, 435/462, 435/465, 530/350, 536/23.1, 536/24.1

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5. Document ID: US 6143557 A

L2: Entry 5 of 9 File: USPT Nov 7, 2000

US-PAT-NO: 6143557
DOCUMENT-IDENTIFIER: US 6143557 A

TITLE: Recombination cloning using engineered recombination sites

DATE-ISSUED: November 7, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hartley; James L.	Frederick	MD		
Brasch; Michael A.	Gaithersburg	MD		

US-CL-CURRENT: 435/320.1; 435/325, 536/23.1, 536/24.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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☐ 6. Document ID: US 5888732 A

L2: Entry 6 of 9 File: USPT Mar 30, 1999

US-PAT-NO: 5888732
DOCUMENT-IDENTIFIER: US 5888732 A
**** See image for Certificate of Correction ****

TITLE: Recombinational cloning using engineered recombination sites

DATE-ISSUED: March 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hartley; James L.	Frederick	MD		
Brasch; Michael A.	Gaithersburg	MD		

US-CL-CURRENT: 435/6; 435/320.1, 435/91.42, 536/23.1, 536/24.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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☐ 7. Document ID: US 5425044 A

L2: Entry 7 of 9 File: USPT Jun 13, 1995

US-PAT-NO: 5425044
DOCUMENT-IDENTIFIER: US 5425044 A

TITLE: Compact, burst mode, pulsed, high energy, blowdown flow photolytic atomic iodine laser

DATE-ISSUED: June 13, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schlie; LaVerne A.	Albuquerque	NM		
Dimiduk; David P.	Albuquerque	NM		
Masson; Bruce S.	Albuquerque	NM		

US-CL-CURRENT: 372/55; 372/70

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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☐ 8. Document ID: US 5369660 A

L2: Entry 8 of 9 File: USPT Nov 29, 1994

US-PAT-NO: 5369660
DOCUMENT-IDENTIFIER: US 5369660 A

TITLE: Repetitively pulsed, closed cycle, photolytic atomic iodine laser

DATE-ISSUED: November 29, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schlie; LaVerne A.	Albuquerque	NM		
Rathge; Robert D.	Albuquerque	NM		

US-CL-CURRENT: 372/55; 372/58, 372/59, 372/61, 372/89

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | Draw Desc | Image

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☐ 9. Document ID: US 5301203 A

L2: Entry 9 of 9 File: USPT Apr 5, 1994

US-PAT-NO: 5301203
DOCUMENT-IDENTIFIER: US 5301203 A

TITLE: Scalable and stable, CW photolytic atomic iodine laser

DATE-ISSUED: April 5, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schlie; LaVerne A.	Albuquerque	NM		
Rathge; Robert D.	Albuquerque	NM		

US-CL-CURRENT: 372/55; 372/109, 372/39, 372/58, 372/59, 372/60, 372/70, 372/92, 372/95

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | Draw Desc | Image

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L4: Entry 13 of 13 File: USPT Jul 13, 1993

DOCUMENT-IDENTIFIER: US 5227288 A
TITLE: DNA sequencing vector with reversible insert

Abstract Text (1):
A sequencing vector based on the M13 phage vector is disclosed which is particularly adapted for use in large scale DNA sequencing procedures. The vector includes a vector unique restriction site flanked by recognition sites, attP and attB, for the site specific recombination as catalyzed by a site specific recombination agent, lambda integrase. Using the vector, which incorporates the capability from M13 to replicate single stranded DNA for dideoxynucleotide sequencing, single stranded DNA of either strand may be selectively created since the orientation of any insert into the restriction site can readily be reversed by exposure of the vector to the recombination agent. This capability is particularly useful in large scale semi-random DNA sequencing in which the ability to selectively produce opposite strands is useful in filling gaps or ambiguities in large sequences.

Detailed Description Text (6):
The recombination recognition sites used in the subject vector are preferably the attachment sites for a protein known as lambda integrase. Lambda integrase is an enzyme encoded by the bacteriophage lambda that directs insertion of the native phage DNA into the chromosome of a bacteria infected by the bacteriophage, such as E.coli, by site specific recombination. The enzyme recognizes specific sites on both the phage, and on the bacterial chromosome, so that a site specific recombination, or integration, of the phage DNA into the E.coli chromosome is directed by the protein. The attachment site on the phage is known as attP, while the attachment site on the bacteria is referred to as attB. Although the attB site is actually in the genome of the bacteria rather than the phage, it is occasionally referred to as associated with the lambda phage. In the presence of the lambda integrase protein, the attachment site attB is split, as is the attachment site attP, creating complementary ends which are then welded together in a site specific recombination event. The new sites created by this recombinant event are referred to as attL and attR, represent the left and right borders of the inserted DNA sequence. All the steps of the integration reaction are coupled, in the sense that all four strands are cut, exchanged, and re-ligated without any stable intermediates appearing. The attP site and attB sites are unequal in size and complexity. The attP site is much larger and contains more binding sites to the enzyme. The minimal attB site is much smaller and may be reduced to a 15 base pair core. The identification of the sites and an analysis of the mechanism of this recombinant event may be found in Hsu, et al., Nature, 285, pp. 85-91 (1980).

Detailed Description Text (7):
While the lambda integrase recombinant system is described herein, with attP and attB as the recognition sites and lambda integrase as the recombination agent, other systems for site specific recombination may also be usable within the vector of the present invention. Other possible genetic recombination systems include those based on the hin (from Salmonella)-gin (from bacteriophage mu), flp (from the 2 micron circle of yeast), and the att80 system of phage Phi80. The requirement of such alternative systems is that the recombinant event be site specific and predictable, and that the recombinant agent be convenient.

Detailed Description Text (8):

Thus the sequencing vector of the present invention allows for either of two strands of a target DNA sequence to be selectively replicated in cells in culture. By insertion of the unknown target DNA sequence into the sequencing vector of the present invention, and in the absence of the lambda integrase protein, the sequencing vector will be efficient in creating single-stranded DNA of one of the two possible orientations of the inserted target DNA sequence. Primer directed generation of a complementary strand from adjacent the insertion then permits sequencing the inserted target DNA in one orientation. By then exposing the sequencing vector to the lambda integrase protein, either by in vitro chemical reaction or by transfection into an appropriate host capable of manufacturing the integrase protein, the site specific recombination event occurs, and the target DNA sequence is flipped in orientation within the vector. Then reverse primer extension under the same conditions as before would result in a complementary DNA to the opposite strand of the target DNA sequence and beginning at the opposite end. In this way, single-stranded DNA from either strand of the target DNA sequence can selectively and conveniently be created. The vectors having the inserted target DNA sequence in either orientation are stable, and can be stored or manipulated as desired. While this inversion feature of the vector makes the vector particularly suited for dideoxynucleotide sequencing, it is to be understood that other sequencing techniques are possible as well.

Detailed Description Text (20):
To conveniently utilize the Janus construction, a pair of bacterial hosts were selected, one having and one not having the capability of conditioning the expression of the phage lambda integrase. The particular host used was JM101:sup, thi, delta(lac-proAB) [F', traD36, proAB, lacI.sup.q Z.DELTA.M25]. The second bacterial host utilized was JM101p(Int) which is the same E.coli JM101 carrying therein the plasmid pHS3-1, which was constructed by Gardner as described in J. Bact., 172, pages 1529-1538 (1990). The plasmid pHS3-1 carries the lambda integrase gene driven by a hybrid Trp-Lac promoter referred to as Ptac. The resulting hybrid promoter is induced by iso-propyl-thio-galactoside (IPTG), so that the cell is competent to carry out site specific recombination by expression of the lambda integrase protein upon the induction by addition to the media of IPTG.

Detailed Description Text (30):
The Janus phage vector thus created has the capability of actuating an inversion of a DNA segment contained within the vector in the form of a site specific integrase recombination of sites contained within the vector. The actual cross-over sites are contained at base pairs 6081-6087 in the attP site, and base pairs 6668-6674 in the attB site, which are seven base inverted repeats that form the actual cross-over site for lambda integrase mediated site specific recombination. Since these sites are placed in the vector in inverse orientation relative to each other, the initiation of lambda integrase recombination of a vector results in the complete inversion of the orientation of all the DNA placed between these sites in orientation within the vector. In other words, the exposure of the vector to the lambda integrase enzyme, under proper conditions for actuation of the enzyme, results in the complete reversal and orientation of all the DNA placed between base pairs 6087 and 6668 of the Janus vector described above. Between those base pairs is a Sma I cloning site (at base pairs 6655). The Sma I site is plasmid unique. Thus any DNA. incorporated into the Janus vector at the Sma I site will be located within the region which is inverted when the site specific recombination event occurs utilizing this vector.

Detailed Description Text (32):
Similarly, at base pairs 6713 to 6728 of the Janus vector is a sequence which is complimentary to the sequence of a commercially available primer, known as a "-40 primer" that an also be used to initiate single-stranded DNA polymerization on the template of the Janus vector. This primer can be used to initiate sequence elongation of inserts into the Janus vector before the recombination event triggered by the lambda integrase enzyme.

Detailed Description Text (33):
The position of the Sma I cloning site is that 6655, conveniently located between the two primers and also appropriately located between the two sites of the site specific integration events. There is an Eco RI site at 6687, but this is not

suitable for sequence cloning because the DNA cloned into that site would not be inverted by the lambda integrase, since the site is outside of the cross-over site for the integrase mediated recombination process. Within the Janus nucleotide sequence, base pairs 6631 through 7125, represent the coding region for the alpha complementing region of beta galactosidase. The interruption by insertion of this coding region is responsible for the blue plaque test used to test for insertions into other M13 vectors. This test continues to work for the Janus vector as described herein through use of the exact same technique.

Detailed Description Text (38):
To utilize the Janus vector in a cloning operation, from a 20 kilobase DNA insert, a random library can be created by sonication of the DNA to result in fragments of between 700 and 2300 base pairs in length. From such random fragments, 300 separate fragments are cloned into the Janus vector and can be cloned and replicated to create single-stranded DNA for sequencing. By sequencing all of the fragments contained in the 300 clones, approximately five-fold coverage of the entire 20,000 base pair segment can be statistically achieved. The sequences can then be assembled by computer. Both experience and computer simulation has indicated that at this level of over-sequencing a few gaps will still remain. To close those gaps and provide the desired level of redundant sequencing for each of the gaps, a subset of about 100 of the clones is selected for inversion. This subset is chosen from the 300 clones to include those clones which are adjacent to the remaining gaps, and to cover those regions which have been sequenced less than four times or regions which have been sequenced only on one strand, or sequences which have significant ambiguities in the consensus sequence so far obtained. These clones are then subjected to an inversion operation by exposing the plasmid clones to the lambda integrase protein. This can be done by in vitro exposure to integrase, or by removing the Janus vectors with the included sequences and then transfecting into integrase competent E.coli host (i.e. JM101 with pH53-1). The 100 clones thus selected will create single-stranded DNA for the selected 100 fragments, but each of the fragments will provide data from the opposite strand of the origin DNA and the sequences will begin at the opposite end of each fragment. Thus strong data is provided for the weak points left by the initial random screening approach. Three-fold additional sequencing from this covering set has been determined by computer model to provide more than an ample high probability of closing all the gaps in each strand, and then building up the minimum four fold redundancy at each point on the sequence. Since by this process seven to eight fold redundancy will have been achieved on average for each base sequence, the need to reach that primary data would be limited to a very few specific problem areas.

CLAIMS:

19. A method as claimed in claim 14 wherein the vector includes as its recombination recognition sites the attP and attB sites of lambda phage, and wherein step (e) comprises exposing the vectors to lambda integrase enzyme to catalyze the site specific recombination event.

20. A method as claimed in claim 19 wherein the exposure of the vectors to the lambda integrase enzyme is done by transfecting the vectors into a bacterial host having lambda integrase enzyme therein.

21. A method as claimed in claim 19 wherein the exposure of the vectors to the lambda integrase enzyme is done by exposing the vectors to the lambda integrase enzyme in vitro.

PALM INTRANET

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Inventor Name Search Result

Your Search was:

Last Name = OW
First Name = DAVID

Application#	Patent#	Status	Date Filed	Title	Inventor Name
60443804	Not Issued	020	01/29/2003	DEVICE FOR MEASURING DEVIATIONS FROM FLATNESS AND SURFACE TOPOLOGY OF A PATTERNED SEMICONDUCTOR WAFER SURFACE USING A INTERFEROMETER FOR PROCESS CONTROL OF CHEMICAL MECHANICAL POLISHING DURING SEMICONDUCTOR AND OPTO-ELECTRONIC MANUFACTURING	OWEN, DAVID
60443329	Not Issued	020	01/28/2003	DEVICE FOR MEASURING THE SURFACE SLOPE, SURFACE CURVATURE, AND STRESS OF PATTERNED SILICON WAFERS USING AN INTERFEROMETRIC TECHNIQUE THAT EVALUATES THE BACKSIDE SURFACE OF THE WAFER	OWEN, DAVID
60405434	Not Issued	019	08/22/2002	METHOD AND SYSTEM FOR INTEGRATING ENTERPRISE SOFTWARE APPLICATIONS WITH DESKTOP SOFTWARE APPLICATIONS	OWENS, DAVID H.
60220062	Not Issued	020	07/21/2000	GENE INSERTION AND REPLACEMENT IN EUKARYOTIC CELLS	OW, DAVID W.
60200605	Not Issued	159	04/28/2000	ORGANOPHOTORECEPTORS FOR ELECTROPHOTOGRAPHY FEATURING ELECTRON TRANSPORT COMPOUNDS	OWEN, DAVID J.
60200475	Not Issued	159	04/28/2000	ORGANOPHOTORECEPTORS FOR ELECTRONPHOTOGRAPHY	OWEN, DAVID J.

				FEATURING ELECTRON TRANSPORT COMPOUNDS	
29149643	D464978	150	10/12/2001	BOOM AND ATTACHMENT MOUNTING PLATE	OWENS, DAVID A.
29149633	D466135	150	10/12/2001	FRAME FOR A WHEELED WORK MACHINE	OWENS, DAVID A.
29149591	Not Issued	093	10/12/2001	CAB FOR A WHEELED WORK MACHINE	OWENS, DAVID A.
10344619	Not Issued	019	01/01/0001	BICYCLIC HETEROAROMATIC DERIVATIVES FOR THE TREATMENT OF IMMUNE AND INFLAMMATORY DISORDERS	OWEN, DAVID ALAN
10343135	Not Issued	019	01/01/0001	SIGNAL MEASUREMENT	OWEN, DAVID PAUL
10313060	Not Issued	020	12/06/2002	PATCH-CLAMPING METHOD AND APPARATUS	OWEN, DAVID GERAINT
10262810	Not Issued	030	10/01/2002	METHOD AND SYSTEM FOR INTEGRATING ENTERPRISE SOFTWARE APPLICATIONS WITH DESKTOP SOFTWARE APPLICATIONS	OWENS, DAVID H.
10236637	Not Issued	041	09/06/2002	HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES	OWEN, DAVID ALAN
10230932	Not Issued	041	08/29/2002	HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES	OWEN, DAVID ALAN
10147574	Not Issued	030	05/16/2002	APPARATUS AND METHOD FOR VALIDATING A DATABASE RECORD BEFORE APPLYING JOURNAL DATA	OWEN, DAVID FINIAN
10074889	Not Issued	030	10/29/2001	METHOD AND APPARATUS FOR DATA RECOVERY OPTIMIZATION IN A LOGICALLY PARTITIONED COMPUTER SYSTEM	OWEN, DAVID FINIAN
10032796	Not Issued	030	12/26/2001	FORMS AUDITING SYSTEMS AND METHODS	OWEN, DAVID A.
10011031	Not Issued	095	11/13/2001	HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES HAVING MMP AND TNF INHIBITORY ACTIVITY	OWEN, DAVID ALAN
09980235	Not Issued	030	03/29/2002	SCREENS	OWEN, DAVID LLEWELLEN
09975171	Not	030	10/10/2001	METHOD AND SYSTEM FOR	OWEN, DAVID

	Issued			PERFORMING MONEY TRANSFER TRANSACTIONS	A.
09965083	Not Issued	030	09/26/2001	ELECTRONIC ACKNOWLEDGMENT OF RECEIPT OF INVENTORY	OWEN, DAVID A.
09911088	Not Issued	071	07/23/2001	METHODS FOR THE REPLACEMENT, TRANSLOCATION AND STACKING OF DNA IN EUKARYOTIC GENOMES	OW, DAVID W.
09862035	Not Issued	030	05/21/2001	SELECTIVE MMP INHIBITORS HAVING REDUCED SIDE-EFFECTS	OWEN, DAVID ALAN
09857456	Not Issued	030	09/24/2001	INTERFACE PATCH CLAMPING	OWEN, DAVID GERAINT
09855978	6469020	150	05/15/2001	HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES	OWEN, DAVID ALAN
09851608	Not Issued	161	05/09/2001	ELECTRICAL POWER GENERATION SYSTEM FOR VEHICULAR BASED APPLICATIONS	OWENS, DAVID J.
09830739	Not Issued	071	06/25/2001	HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES HAVING MMP AND TNF INHIBITORY ACTIVITY	OWEN, DAVID ALAN
09820094	6469788	150	03/27/2001	COHERENT GRADIENT SENSING ELLIPSOMETER	OWEN, DAVID M.
09806266	6462042	150	03/28/2001	HYDROXAMIC ACID DERIVATIVES AS MATRIX METALLOPROTEINASE (MMP) INHIBITORS	OWEN, DAVID ALAN
09806259	6455531	150	03/28/2001	HYDROXAMIC ACID DERIVATIVES	OWEN, DAVID ALAN
09790263	6455718	150	02/21/2001	HALOGEN EXCHANGE REACTIONS IN PREPARING CATALYSTS AND THEIR PRECURSORS	OWENS, DAVID W.
09777522	Not Issued	041	02/06/2001	HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES	OWEN, DAVID ALAN
09724101	6320511	150	11/28/2000	ICE DETECTOR CONFIGURATION FOR IMPROVED ICE DETECTION AT NEAR FREEZING CONDITIONS	OWENS, DAVID G.
09719236	Not	041	04/19/2001	HIGH THROUGHPUT SCREEN	OWEN, DAVID

	Issued				GERAINT
09649712	Not Issued	041	08/25/2000	SYSTEM AND METHOD FOR MEASURING AND IMPROVING FEED YARD PRODUCTIVITY	OWEN, DAVID H.
09623835	6465468	150	03/22/2000	HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES	OWEN, DAVID ALAN
09623669	6506764	150	09/06/2000	HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES	OWEN, DAVID ALAN
09622134	6503910	150	08/11/2000	HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES	OWEN, DAVID ALAN
09622017	Not Issued	161	08/10/2000	HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES	OWEN, DAVID ALAN
09620800	Not Issued	071	07/21/2000	DNA RECOMBINATION IN EUKARYOTIC CELLS BY THE BACTERIOPHAGE PHIC31 RECOMBINATION SYSTEM	OW, DAVID W.
09616520	Not Issued	160	07/14/2000	PEPTIDYL COMPOUNDS HAVING MMP AND TNF INHIBITORY ACTIVITY	OWEN, DAVID ALAN
09596146	6248265	150	06/16/2000	CLEAN GENERATION OF A FLUOROARYL GRIGNARD REAGENT	OWENS, DAVID W.
09570699	6508037	150	05/15/2000	RAISED FLOORING SYSTEM & METHOD	OWEN, DAVID D.
09564217	6310088	150	05/04/2000	HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES HAVING MMP AND TNF INHIBITORY ACTIVITY	OWEN, DAVID ALAN
09549478	Not Issued	041	04/14/2000	SYSTEM AND PROCESS FOR SYNCHRONIZING DATA BETWEEN BROADCAST MEDIA AND THE INTERNET	OWEN, DAVID E.
09546742	6464392	150	04/11/2000	TACTICAL THERMAL LUMINESCENCE SENSOR FOR GROUND PATH CONTAMINATION DETECTION	OWENS, DAVID J.
09523750	Not Issued	041	03/13/2000	AUTOMATED QUEUE RECOVERY USING ELEMENT-BASED JOURNALING	OWEN, DAVID FINIAN
09519645	6464137	150	03/06/2000	DOCUMENT DISPENSING SYSTEM	OWENS, DAVID S.

09457179	Not Issued	041	12/07/1999	METHOD AND APPARATUS FOR CREATING A LINK BETWEEN DATA IN DIFFERENT DATA STORAGE AREAS	OWENS, DAVID
09370621	Not Issued	161	08/06/1999	CLAMP FOR A BATTERY JUMPER CABLE	OWSLEY, DAVID

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